



Appendix C

RF Test Data for 2.4G WIFI (Conducted Measurement)

Product Name: Smart Phone

Test Model: K1

Environmental Conditions

Temperature:	23.8° C
Relative Humidity:	52.2%
ATM Pressure:	100.0 kPa
Test Engineer:	Ling Zhu
Supervised by:	Li Huan





C.1 DTS Bandwidth

Test Result

TestMode	Antenna	Channel	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant	2412	5.080	2409.960	2415.040	0.5	PASS
		2437	9.080	2432.960	2442.040	0.5	PASS
		2462	10.080	2455.960	2466.040	0.5	PASS
11G	Ant	2412	11.320	2405.680	2417.000	0.5	PASS
		2437	15.720	2429.440	2445.160	0.5	PASS
		2462	9.560	2453.720	2463.280	0.5	PASS
11N20SISO	Ant	2412	5.080	2410.680	2415.760	0.5	PASS
		2437	16.360	2429.480	2445.840	0.5	PASS
		2462	10.200	2453.080	2463.280	0.5	PASS
11N40SISO	Ant	2422	7.600	2409.440	2417.040	0.5	PASS
		2437	5.120	2448.200	2453.320	0.5	PASS
		2452	6.400	2448.160	2454.560	0.5	PASS





Test Graphs

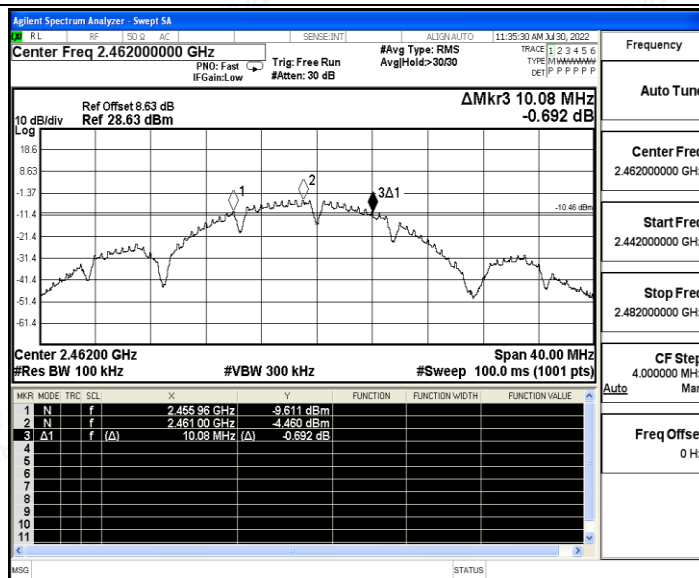


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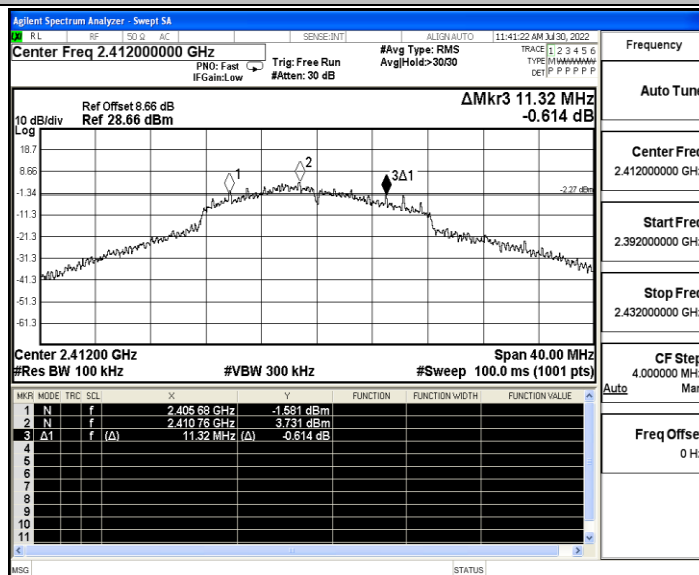
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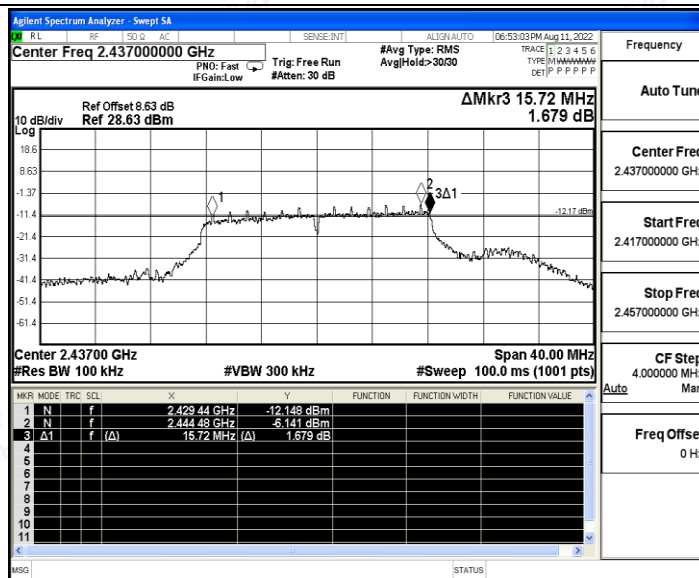


11G_Ant_2412

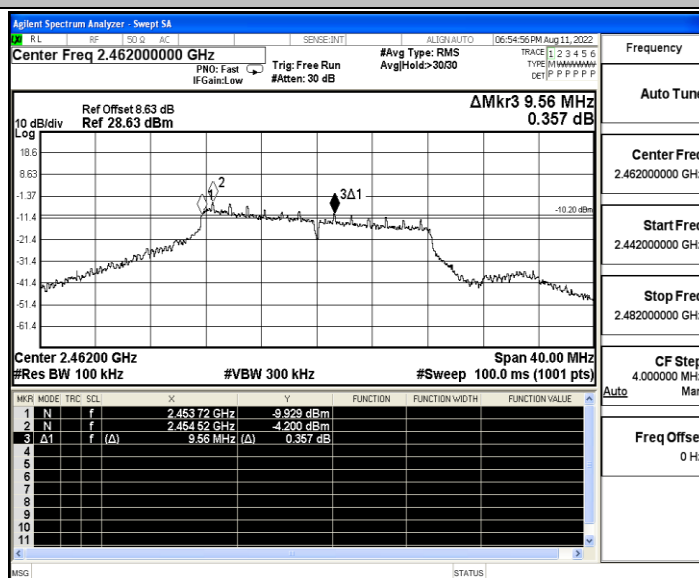


11G_Ant_2437





11G_Ant_2462



11N20SISO_Ant_2412

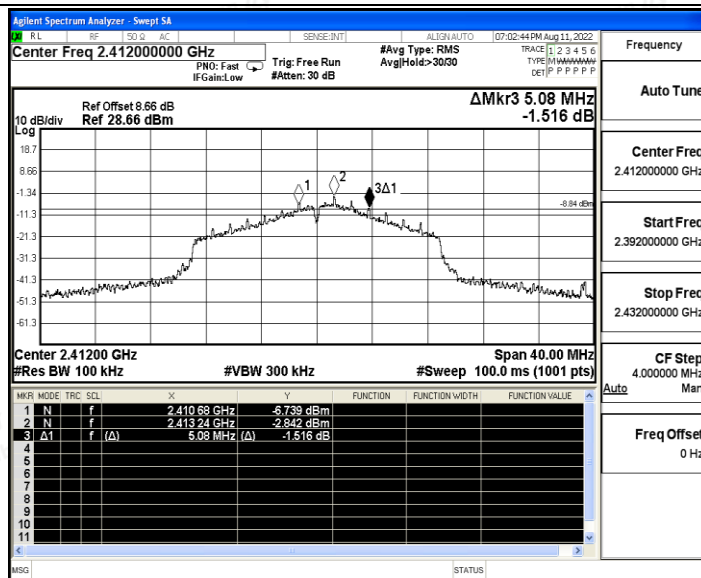


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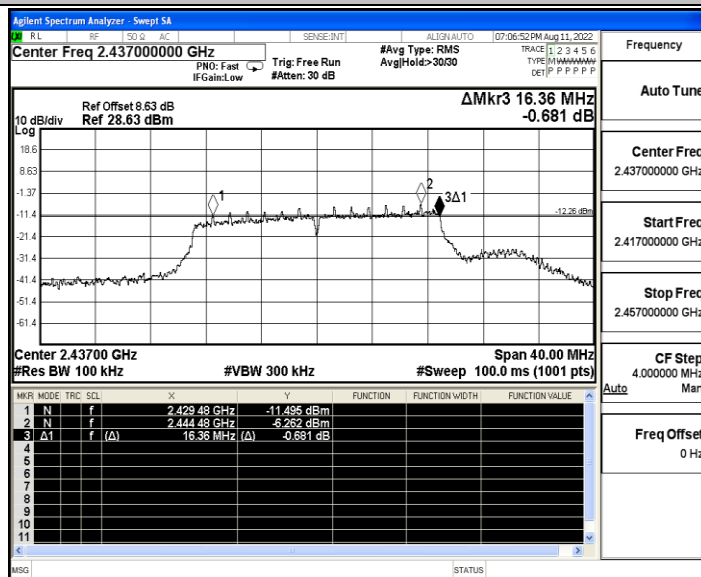
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11N20SISO_Ant_2437



11N20SISO_Ant_2462

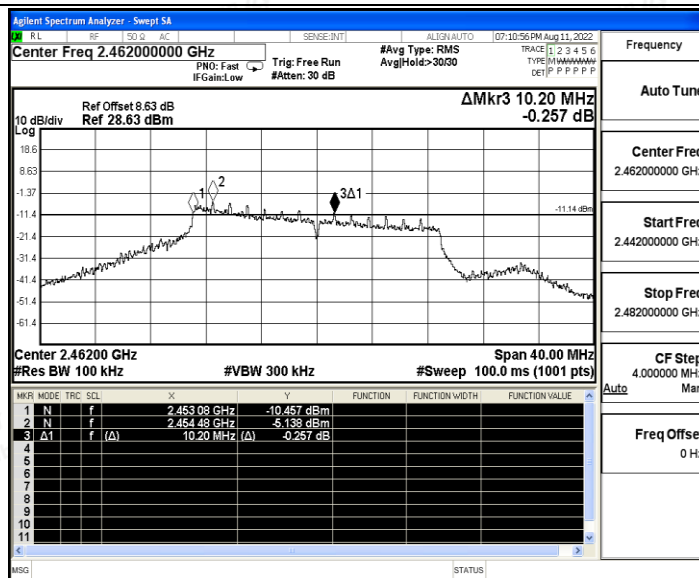


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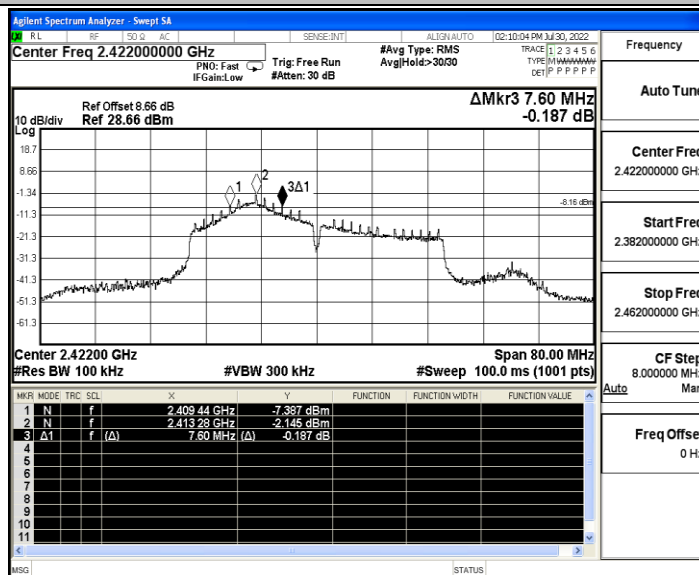
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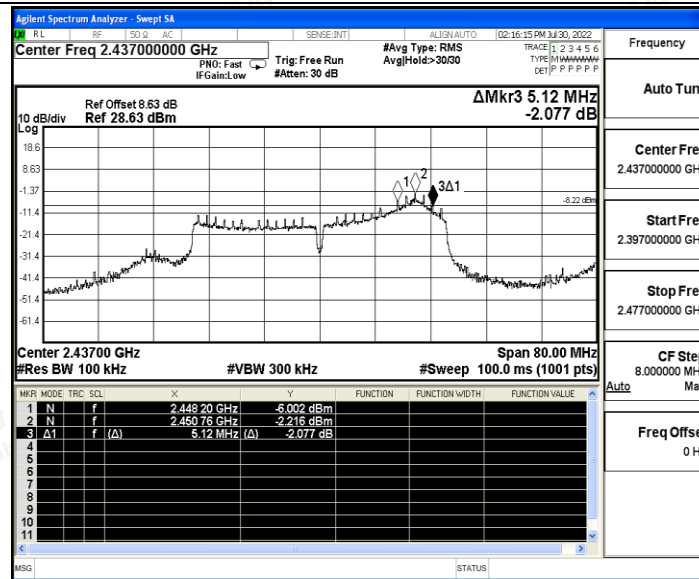


11N40SISO_Ant_2422

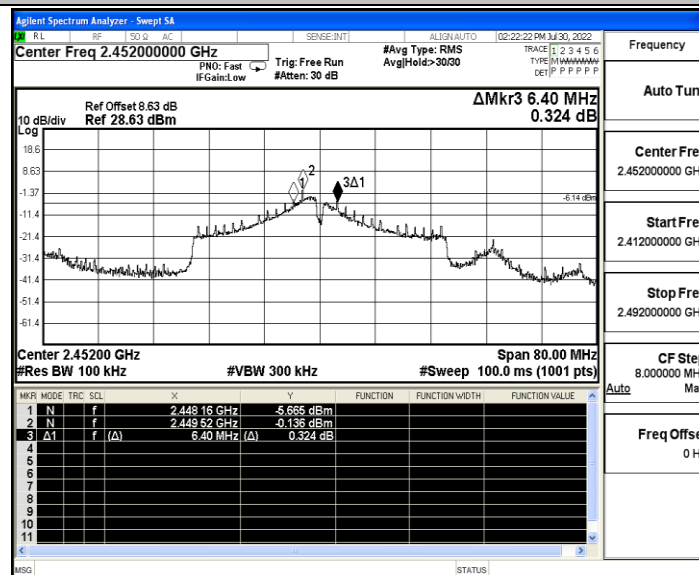


11N40SISO_Ant_2437





11N40SISO_Ant_2452



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C.2 Maximum conducted output power

Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
11B	Ant	2412	13.65	≤30.00	PASS
		2437	8.07	≤30.00	PASS
		2462	9.05	≤30.00	PASS
11G	Ant	2412	12.04	≤30.00	PASS
		2437	12.93	≤30.00	PASS
		2462	11.55	≤30.00	PASS
11N20SISO	Ant	2412	12.15	≤30.00	PASS
		2437	11.47	≤30.00	PASS
		2462	10.78	≤30.00	PASS
11N40SISO	Ant	2422	11.93	≤30.00	PASS
		2437	11.31	≤30.00	PASS
		2452	12.07	≤30.00	PASS





C.3 Maximum power spectral density

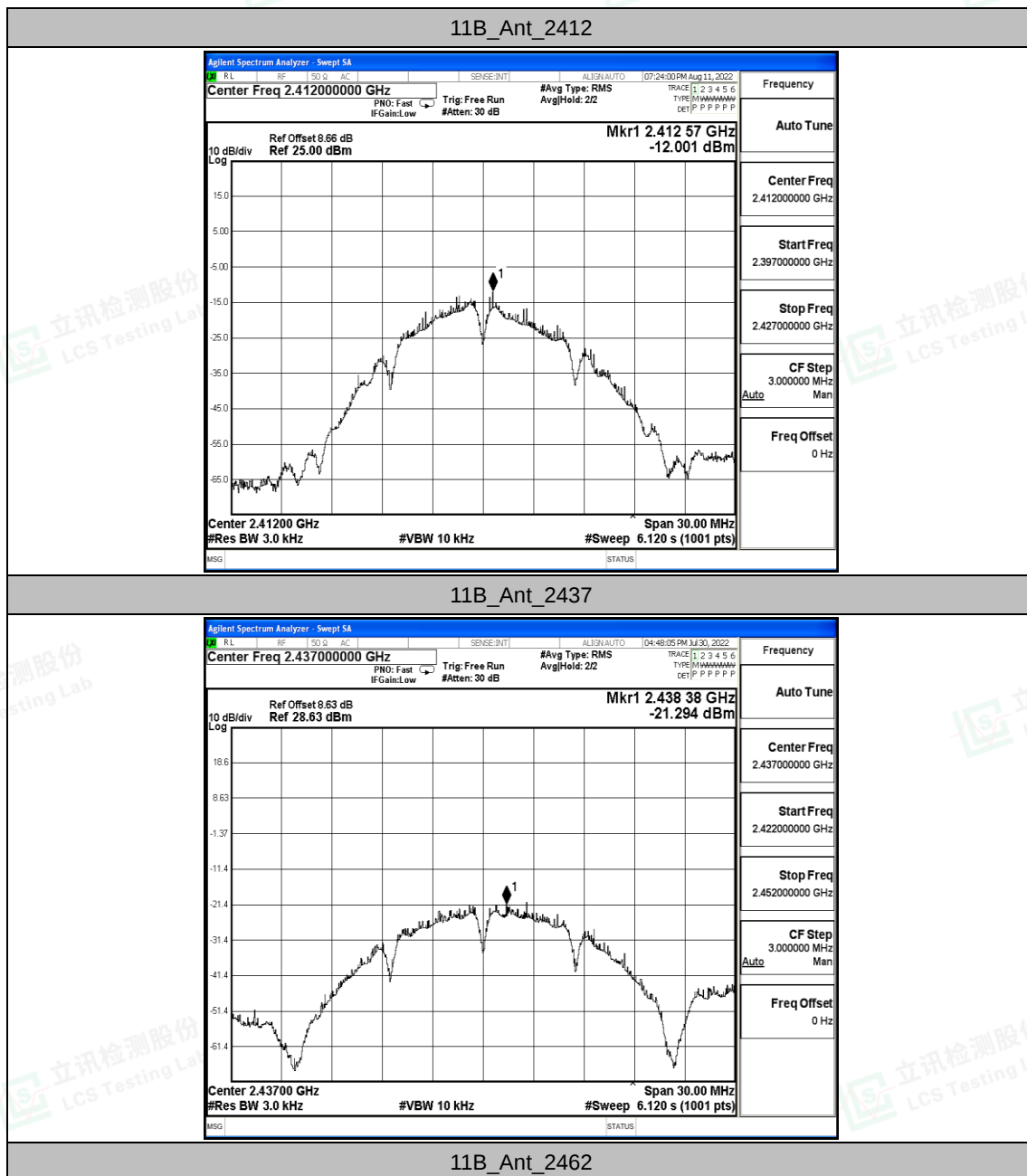
Test Result

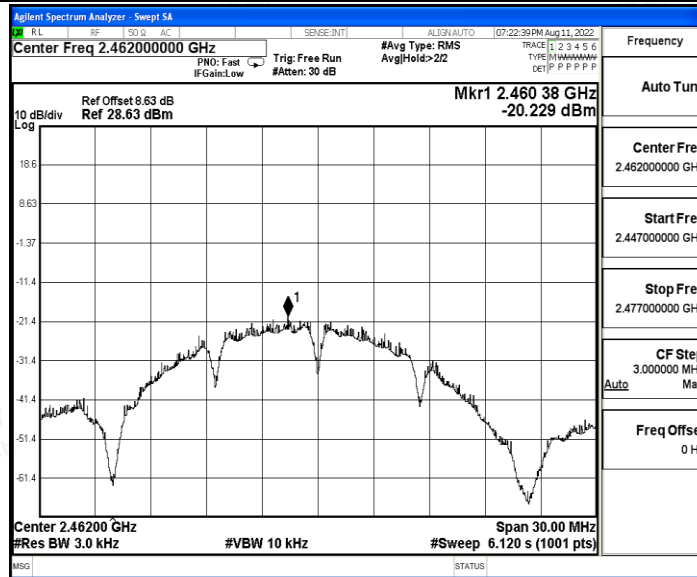
TestMode	Antenna	Channel	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant	2412	-12	≤8.00	PASS
		2437	-21.29	≤8.00	PASS
		2462	-20.23	≤8.00	PASS
11G	Ant	2412	-19.1	≤8.00	PASS
		2437	-21.32	≤8.00	PASS
		2462	-20.78	≤8.00	PASS
11N20SISO	Ant	2412	-18.62	≤8.00	PASS
		2437	-22.45	≤8.00	PASS
		2462	-20.95	≤8.00	PASS
11N40SISO	Ant	2422	-19.89	≤8.00	PASS
		2437	-20.34	≤8.00	PASS
		2452	-18.67	≤8.00	PASS



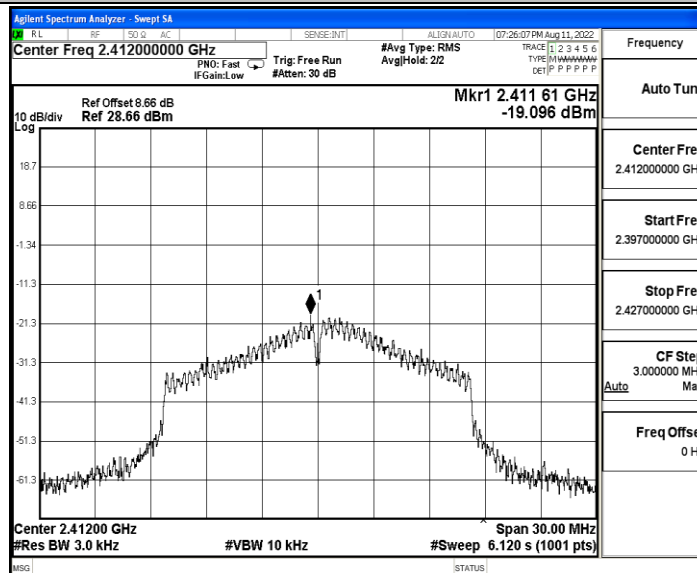


Test Graphs



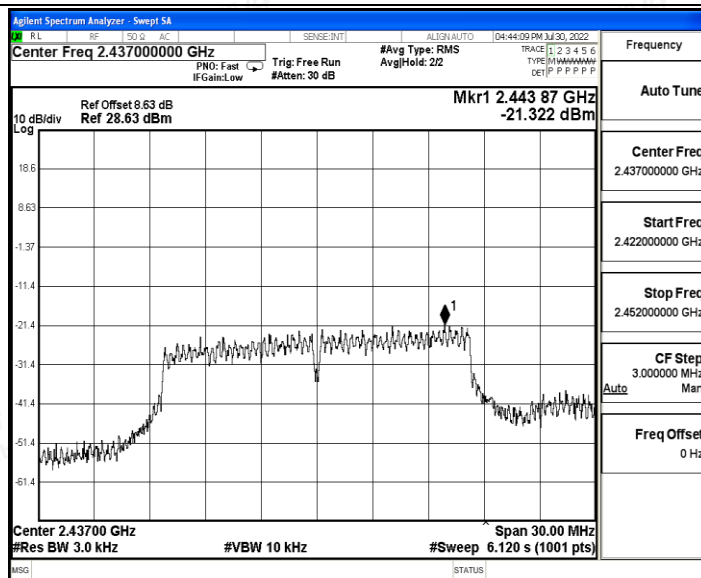


11G_Ant_2412

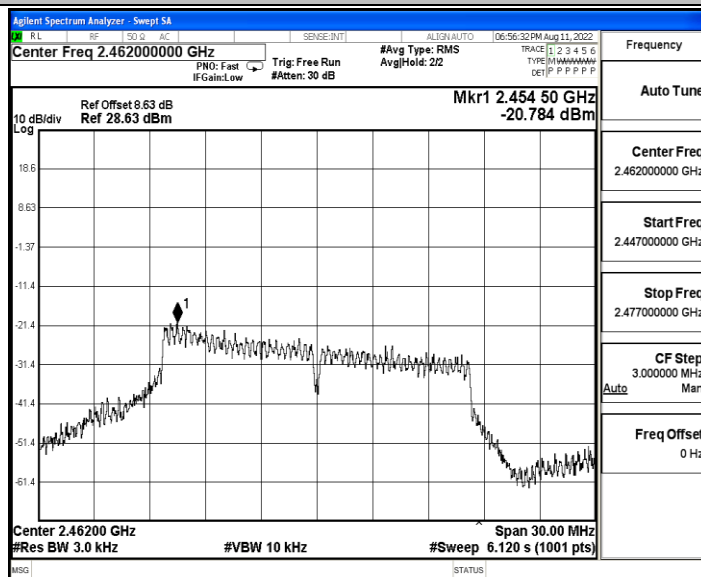


11G_Ant_2437



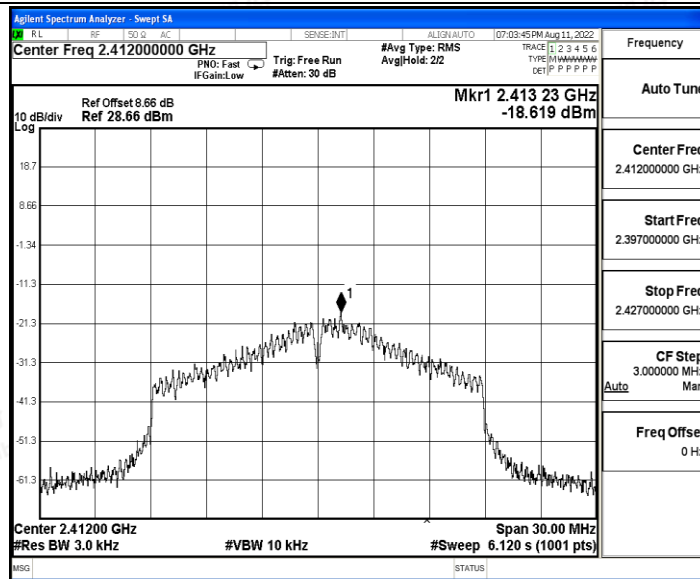


11G_Ant_2462

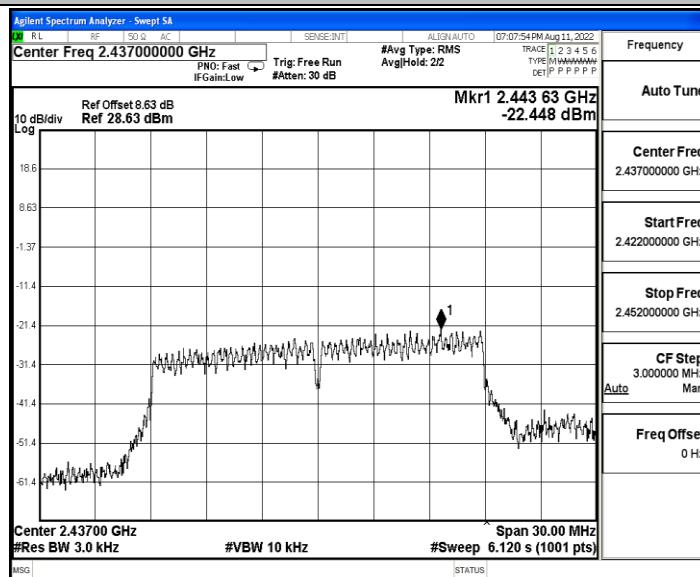


11N20SISO_Ant_2412



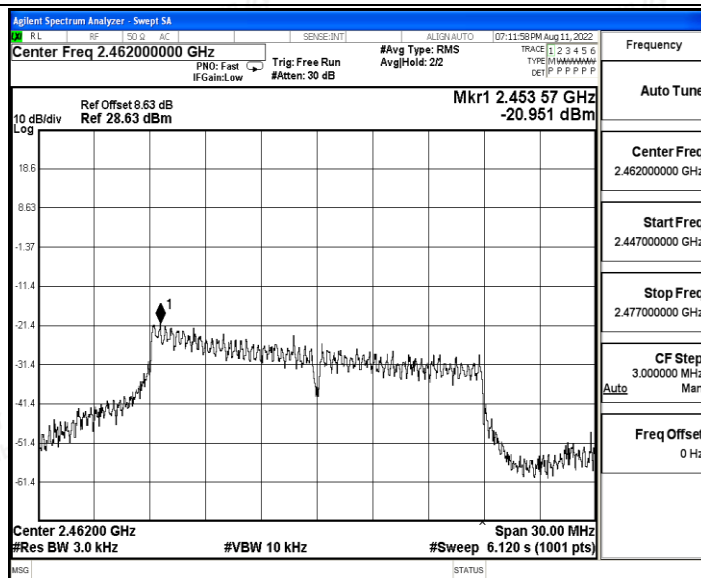


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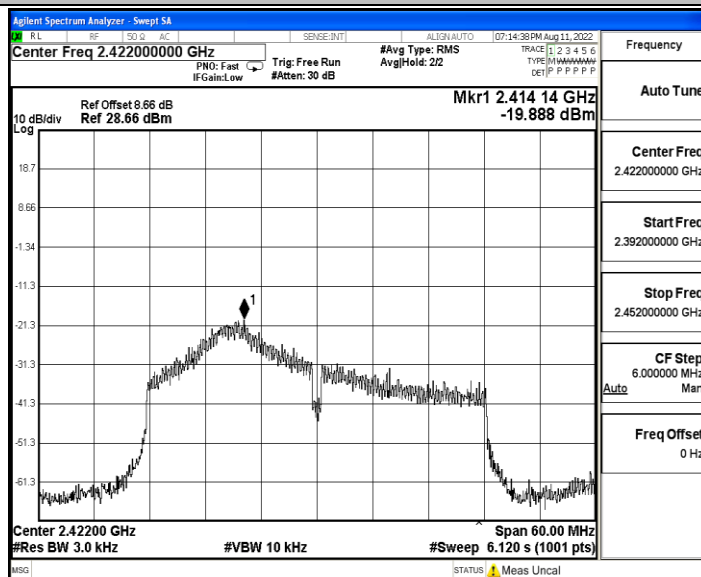


11N20SISO_Ant_2462



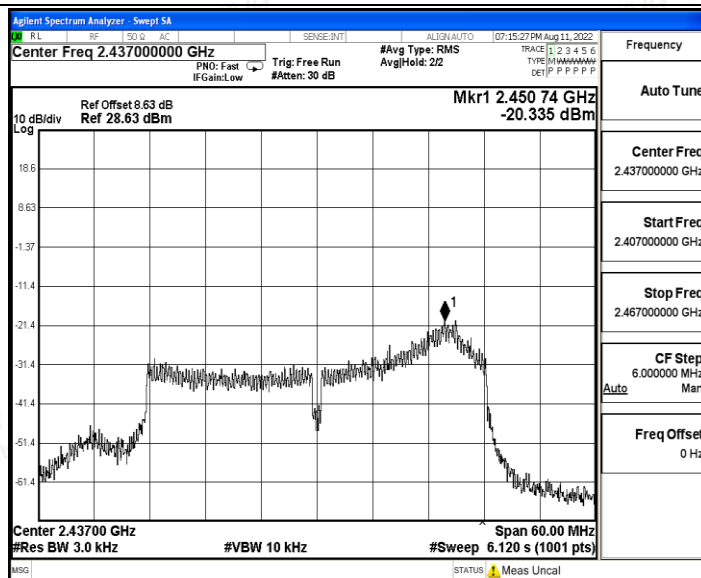


11N40SISO_Ant_2422

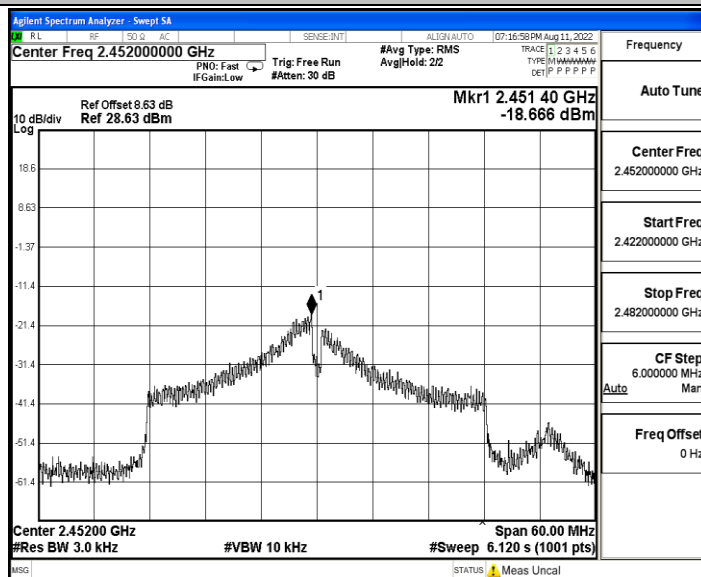


11N40SISO_Ant_2437





11N40SISO_Ant_2452





C.4 Band edge measurements

Test Result

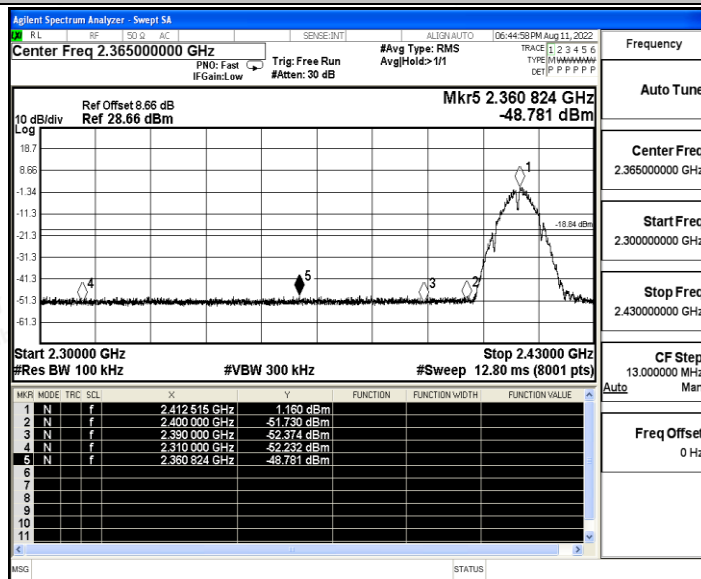
TestMode	Antenna	ChName	Channel	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant	Low	2412	1.16	-48.78	≤ -18.84	PASS
		High	2462	-4.23	-45.74	≤ -24.23	PASS
11G	Ant	Low	2412	3.68	-23.69	≤ -16.32	PASS
		High	2462	-4.64	-47.35	≤ -24.64	PASS
11N20SISO	Ant	Low	2412	-2.40	-41.92	≤ -22.4	PASS
		High	2462	-4.76	-48.01	≤ -24.76	PASS
11N40SISO	Ant	Low	2422	-1.48	-39.78	≤ -21.48	PASS
		High	2452	-0.06	-33.97	≤ -20.06	PASS



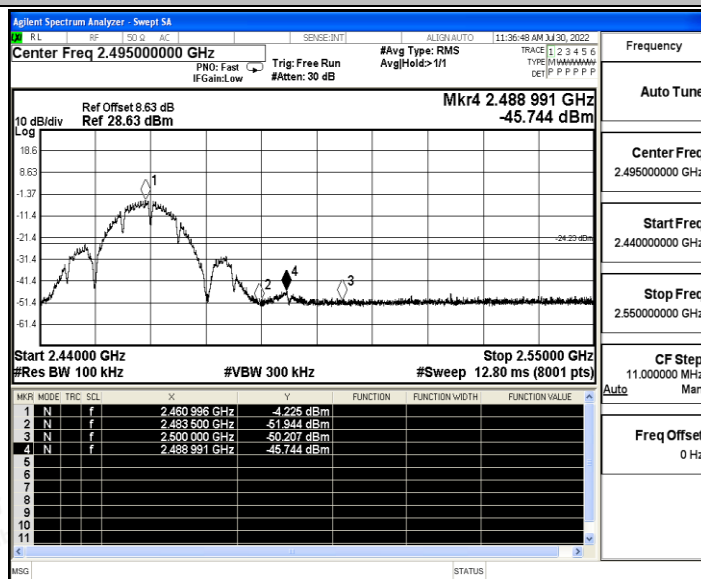


Test Graphs

11B_Ant_Low_2412



11B_Ant_High_2462



11G_Ant_Low_2412

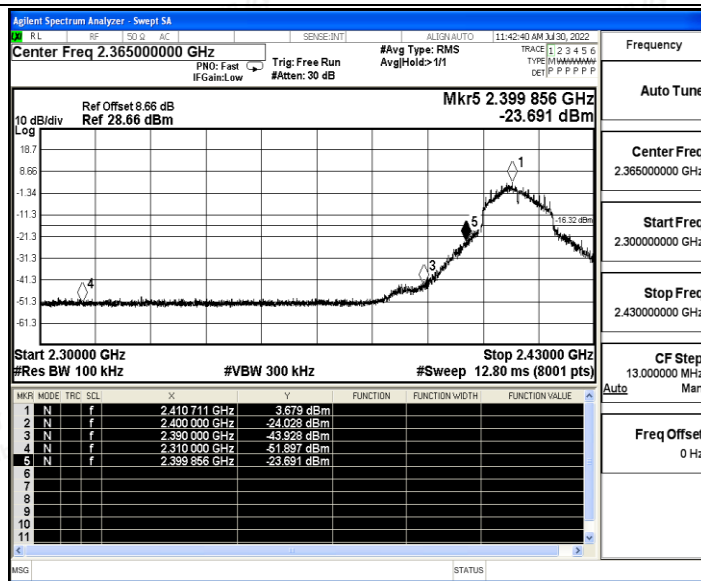


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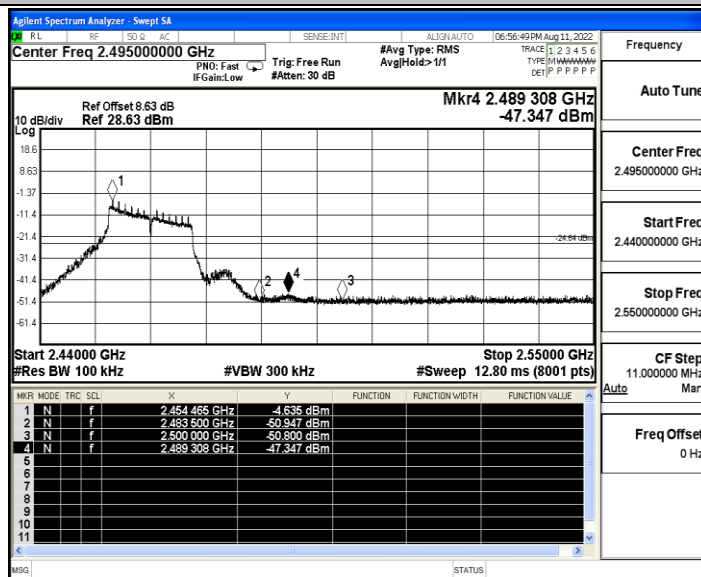
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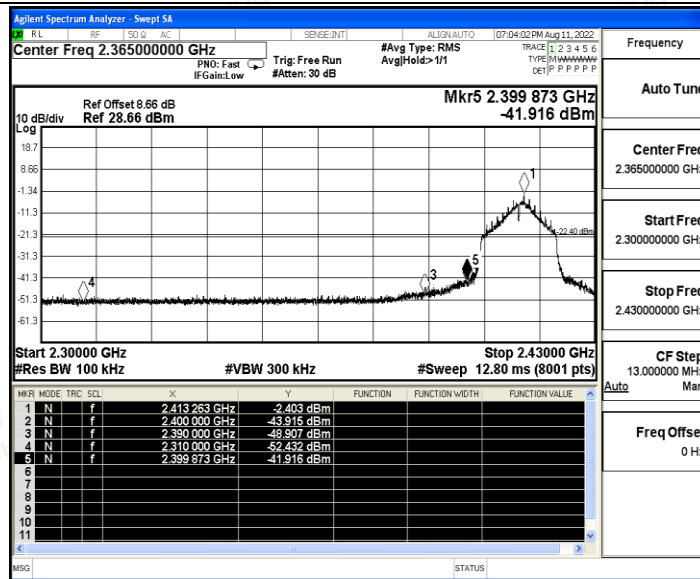


11G_Ant_High_2462

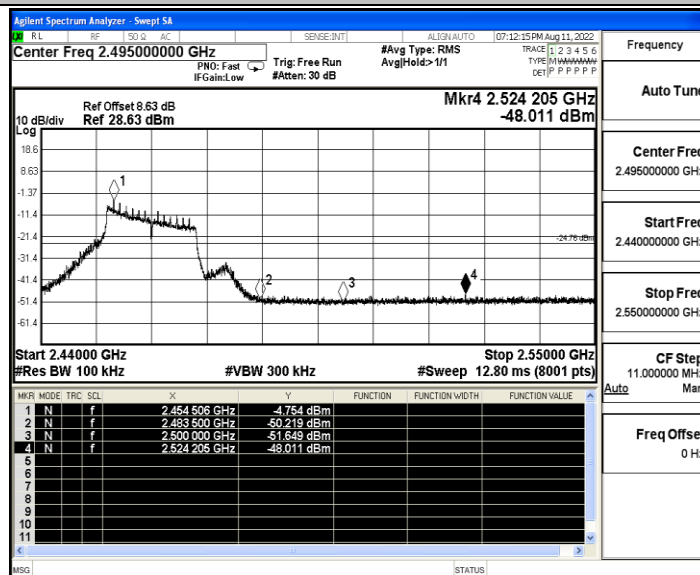


11N20SISO_Ant_Low_2412





11N20SISO_Ant_High_2462



11N40SISO_Ant_Low_2422

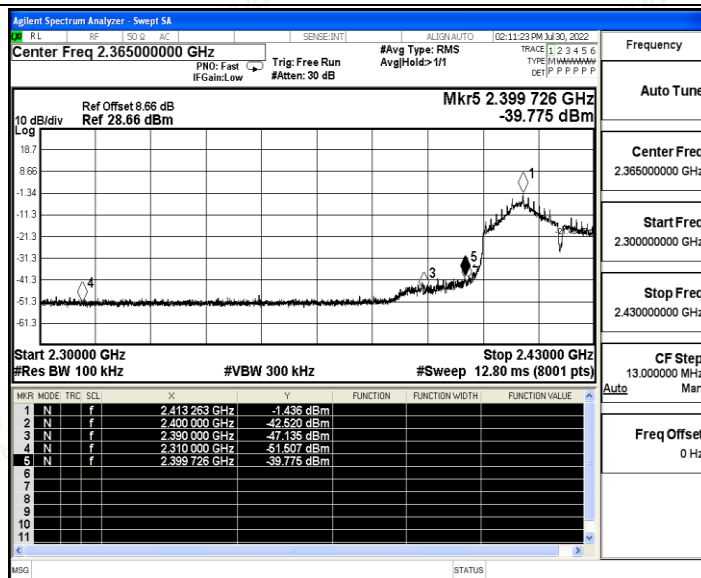


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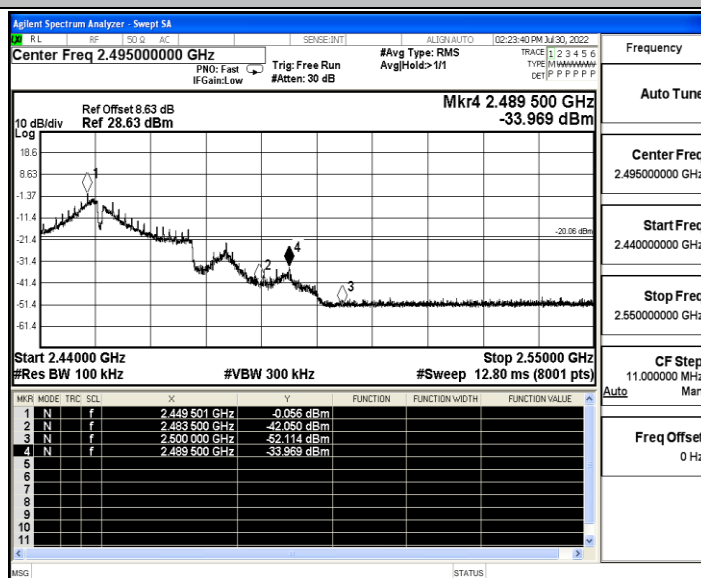
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11N40SISO_Ant_High_2452





C.5 Conducted Spurious Emission

Test Result

TestMode	Antenna	Channel	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant	2412	Reference	0.92	0.92	---	PASS
			30~1000	0.92	-60.23	≤-19.08	PASS
			1000~26500	0.92	-46.17	≤-19.08	PASS
		2437	Reference	-4.23	-4.23	---	PASS
			30~1000	-4.23	-60.75	≤-24.23	PASS
			1000~26500	-4.23	-37.06	≤-24.23	PASS
		2462	Reference	-4.13	-4.13	---	PASS
			30~1000	-4.13	-60.4	≤-24.13	PASS
			1000~26500	-4.13	-46.26	≤-24.13	PASS
11G	Ant	2412	Reference	3.76	3.76	---	PASS
			30~1000	3.76	-60.23	≤-16.24	PASS
			1000~26500	3.76	-38.45	≤-16.24	PASS
		2437	Reference	-0.37	-0.37	---	PASS
			30~1000	-0.37	-60.94	≤-20.37	PASS
			1000~26500	-0.37	-44.94	≤-20.37	PASS
		2462	Reference	-4.40	-4.40	---	PASS
			30~1000	-4.40	-60.74	≤-24.4	PASS
			1000~26500	-4.40	-46.07	≤-24.4	PASS
11N20SISO	Ant	2412	Reference	3.58	3.58	---	PASS
			30~1000	3.58	-60.88	≤-16.42	PASS
			1000~26500	3.58	-41.16	≤-16.42	PASS
		2437	Reference	-3.65	-3.65	---	PASS
			30~1000	-3.65	-60.47	≤-23.65	PASS
			1000~26500	-3.65	-44.79	≤-23.65	PASS
		2462	Reference	-3.33	-3.33	---	PASS
			30~1000	-3.33	-60.92	≤-23.33	PASS
			1000~26500	-3.33	-45.54	≤-23.33	PASS
11N40SISO	Ant	2422	Reference	-1.99	-1.99	---	PASS
			30~1000	-1.99	-60.05	≤-21.99	PASS
			1000~26500	-1.99	-45.66	≤-21.99	PASS
		2437	Reference	-1.72	-1.72	---	PASS
			30~1000	-1.72	-60.9	≤-21.72	PASS
			1000~26500	-1.72	-46.38	≤-21.72	PASS
		2452	Reference	0.02	0.02	---	PASS
			30~1000	0.02	-61.25	≤-19.98	PASS



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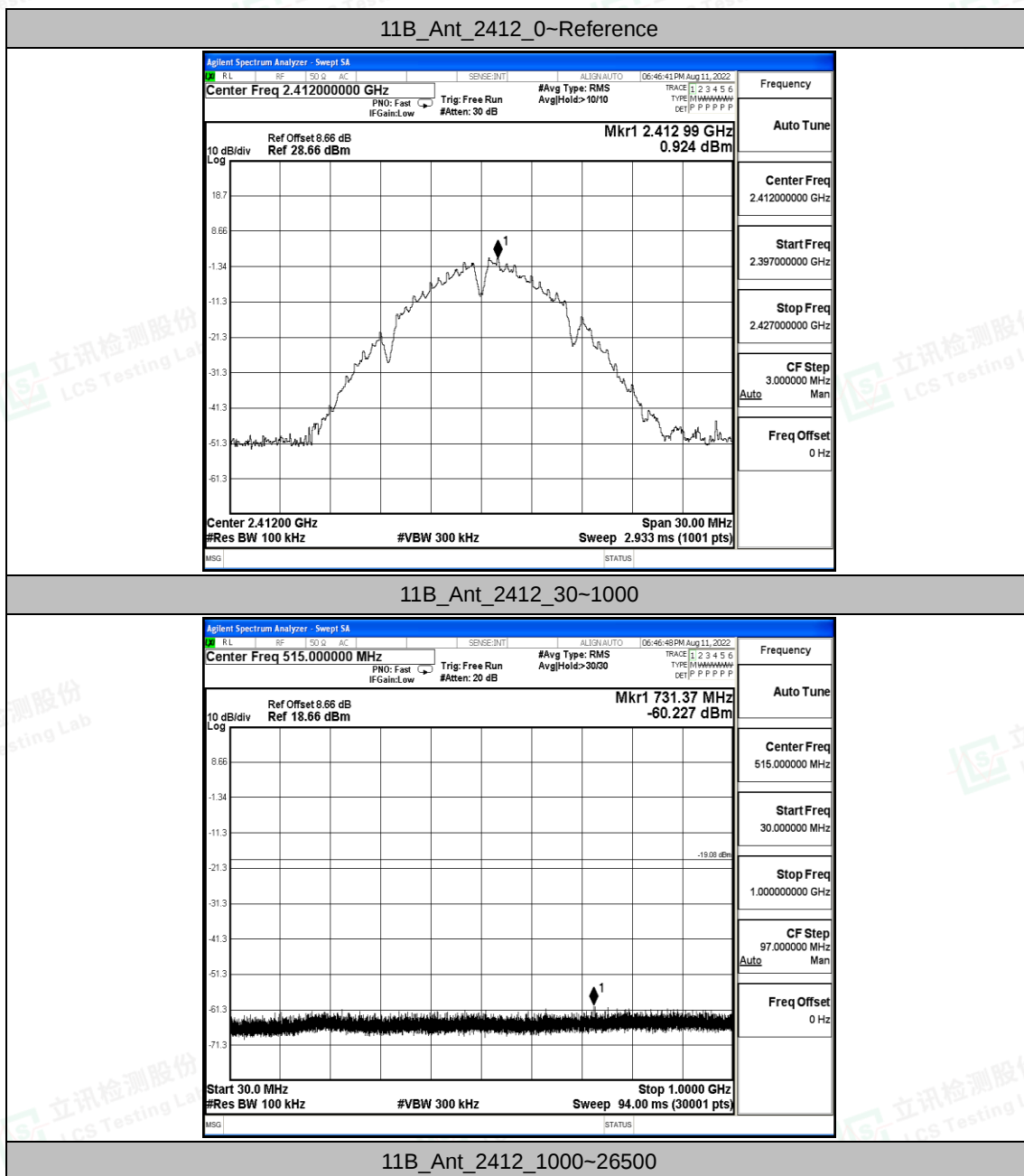
			1000~26500	0.02	-45.57	≤-19.98	PASS
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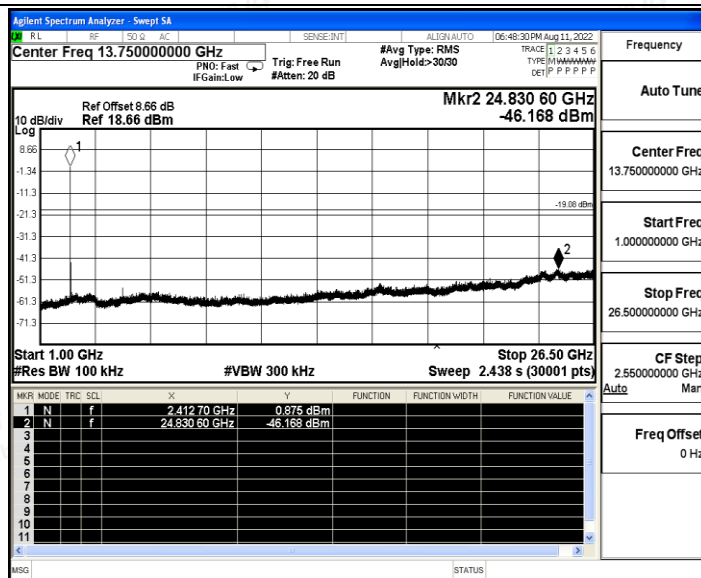


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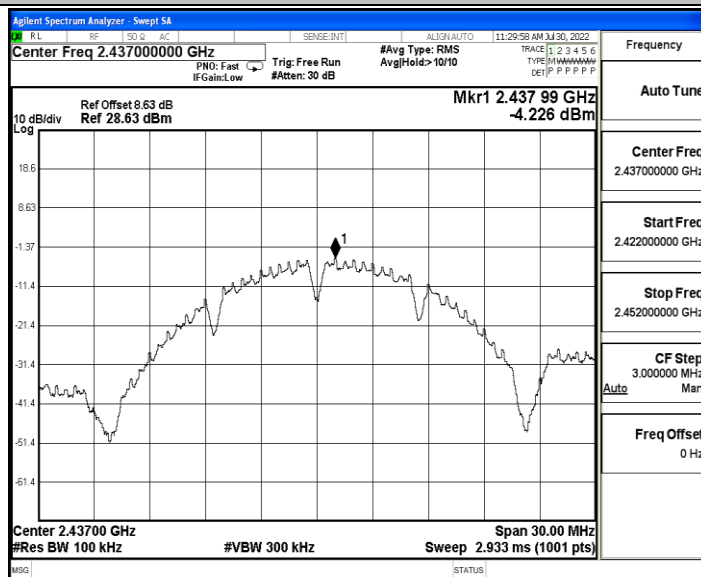


Test Graphs





11B_Ant_2437_0~Reference



11B_Ant_2437_30~1000

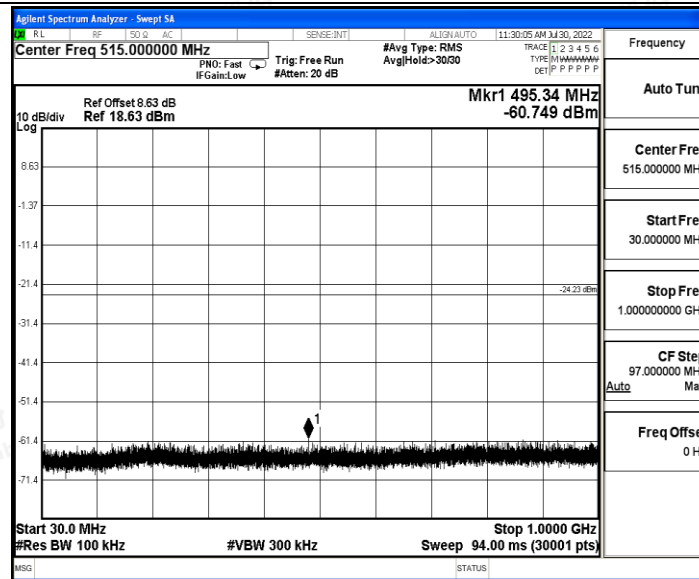


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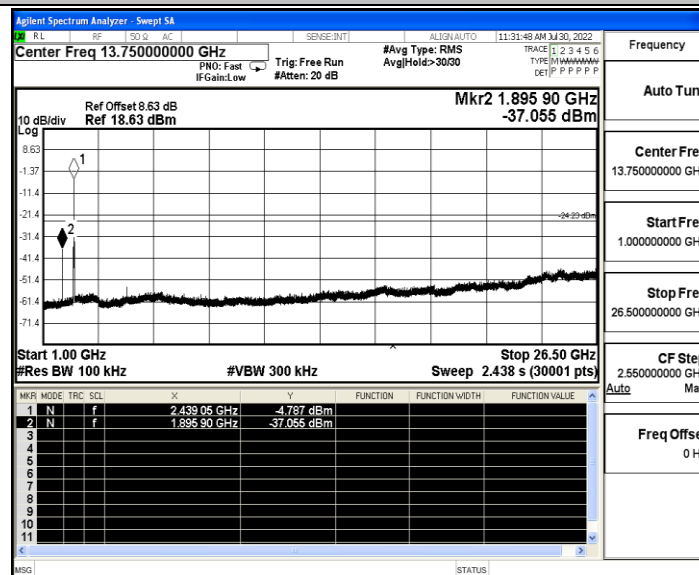
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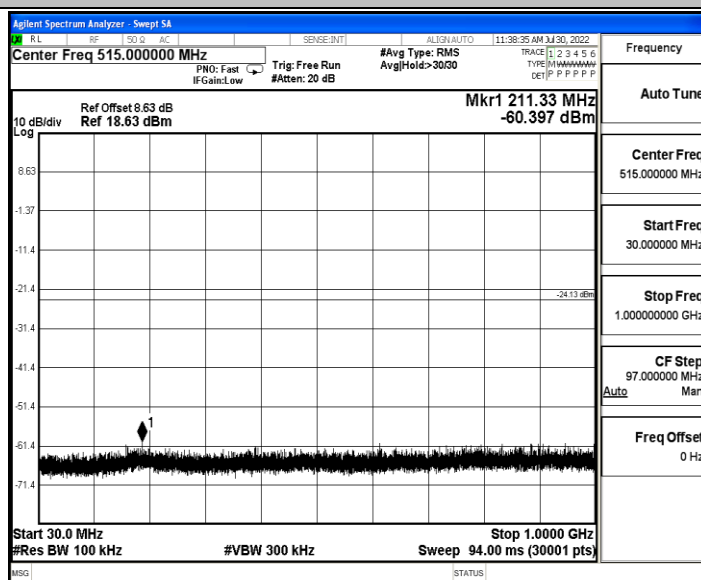
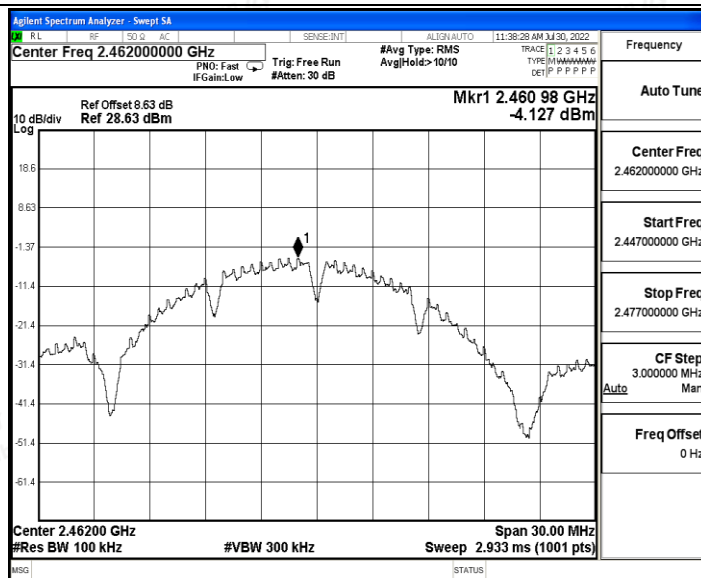


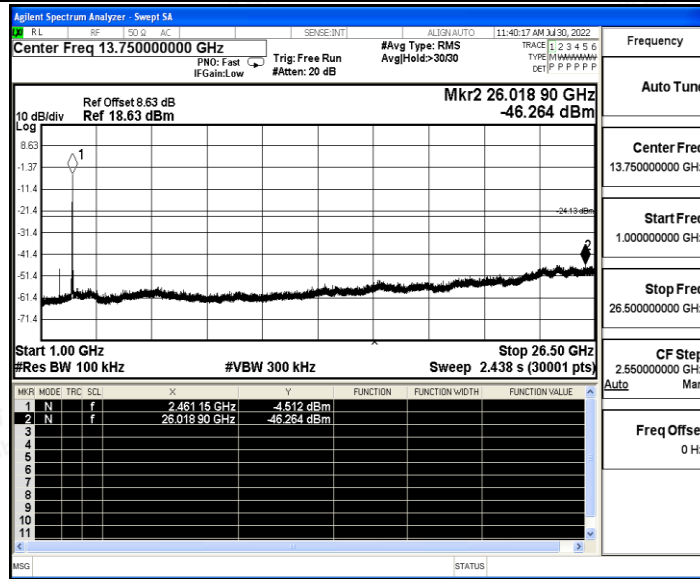
11B_Ant_2437_1000~26500



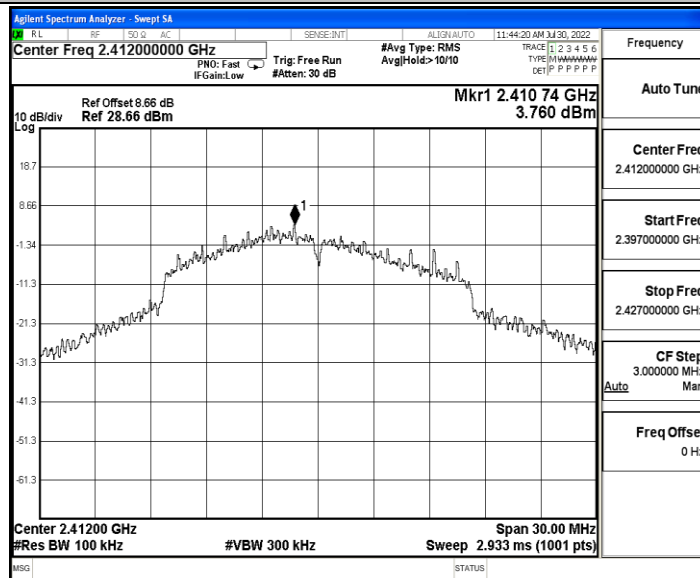
11B_Ant_2462_0~Reference







11G_Ant_2412_0~Reference



11G_Ant_2412_30~1000

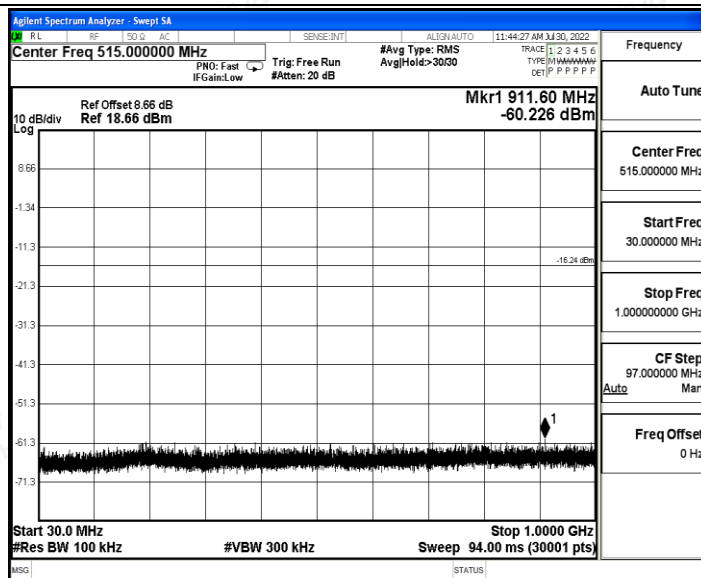


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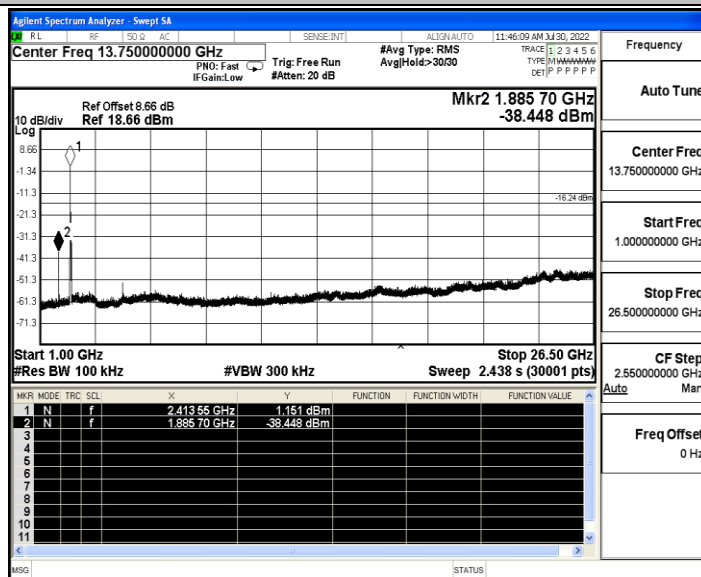
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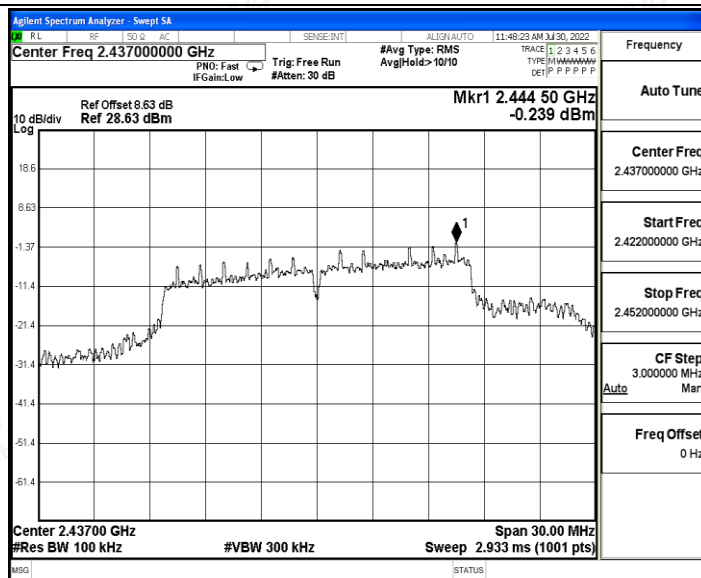


11G_Ant_2412_1000~26500

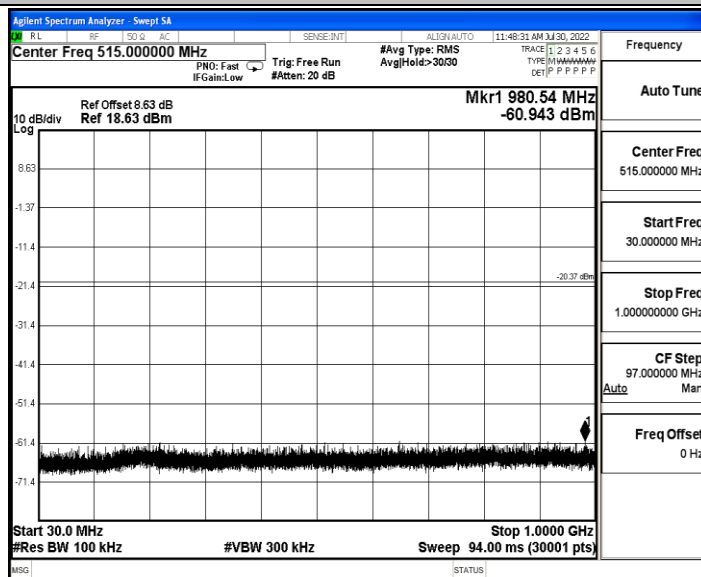


11G_Ant_2437_0~Reference





11G_Ant_2437_30~1000



11G_Ant_2437_1000~26500

